CASIO® Service Bulletin

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MODEL: XJ-360

SUBJECT : Update of internal software (REVISED in APRIL 2006)

Symptom:

a. No power ON occasionally, then the error history shows followings;
Error 21 / 22 for DMD / Sirocco fan trouble
Error 18 for lamp cover trouble

b. A perceptible flicker looking like digital noise is caused in the gray area of the projection image. (Example) in the gray gradation screen, in the gray area of the Excel screen

This perceptible flicker is different from lamp flicker, having features following below.
*It appears in the certain tone wedge while in the gray 256 tone screen. If the [Brightness] or[Contrast] setting in the menu is shifted, this perceptible flicker is also transferred to another tone wedge.
*Select [Graphic] or [Theater] in the color mode.

Cause:

a. If the CPU detects unstable conditions of above at power ON, then it stops all internal circuits automatically.

b. Due to limitation of internal software for display control system, some flicking can be occurred at a color tone.

Countermeasure:

When the above symptom can be found with the XJ-360, update internal software as attached sheets.

Necessary equipment:

a. Personal computer with Windows XP
b. USB cable (A to miniB)
c. CD-ROM of update software and image file of writing data
d. Blind seal for USB on side panel

Please order item b.~d. to Overseas Service Division, Tokyo, Japan.
Please prepare the personal computer with Windows XP at dealer side.

Note : Explanation of Area Symbols
DI : Asia,Oceania,Middle East,Africa,Eastern Europe and Middle/South America CI : Casio Inc and Casio Canada
UK : Casio UK GM : Casio GmbH EU : Western Europe SP : Custom-made Model

H. OTA
Manager

◆ Chapter 1 ◆

■ Introduction

1-1 Operating environment

[Hardware]

- PC (OS: Window XP)
- USB cable (A to miniB)

[Software]

- DLP Composer Lite
- Flash image file

1-2 Before writing

Preparation under following is required before start to write the ROM XJ-360.

① Install the DLP Composer Lite.

Your computer is necessary to be pre-installed DLP Composer Lite.

Refer to [Chapter 2. Installing DLP Composer Lite] for more information.

② Confirm the flash image file.

Confirm the [flash image file] and the [Checksum] for writing.

Values for flash image file and checksum are shown while writing the ROM.

- Image file name : gy794.img
- Value of checksum : 062A56BD

◆ Chapter 2 ◆

■ Installing the DLP Composer Lite

Follow the instruction below to install the DLP Composer Lite as the instruction described from 2-1 to 2-2.

These files following are required for installation.

- DLP Composer Lite v4.2 Setup.exe
- bp_ddp1000.project
- DDP2000.projector
- Flash Device Parameters.txt

[Important] Make sure your computer is running under Windows XP.

2-1 Perform the setup program

Perform the [DLP Composer Lite v4.2 Setup.exe] to install.

① The DLP Composer Lite 4.2 installation Wizard screen is displayed.

② The License Agreement screen is displayed.

③ Selection buttons are displayed at the bottom of the screen.

④ [Next] is displayed.

⑤ The “Readme information” screen is displayed.

⑥ The “Select Features” screen is displayed.

⑦ The “Ready to install the Application” screen is displayed.

⑧ Beginning installation

⑨ Completion of this installation is implied.

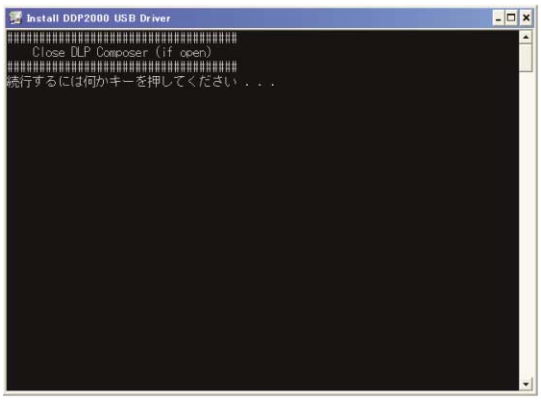
⑩ The License Agreement screen is displayed.

- Click [Yes] to restart now.
- If [No] is chosen for planning to restart manually later, do not to forget to restart before moving on to the next procedures.

2-2 After the setup program is completed

① Start → All program → DLP Composer Lite → Then perform the Install DDP2000 USB Driver.

② The screen shown below is displayed when performing [Install DDP2000 USB Driver]



Press any key.

③ The program boots up by pressing any key.

- The screen is terminated when completing.
- Press [OK] button in the case that the UsbUpd dialog is displayed.

④ Copy these files below to the file [ProgramFiles. DLP Composer Lite]

- bp_ddp1000.projector
- DDP2000.projector
- FlashDeviceParameters.txt

2-3 Confirm that installation has been successfully completed.

Open the device manager in the control panel when connecting to the XJ-360 with the USB cable. (After [3-2 Write the ROM] is completed)

Installation has been succeeded if the WinDriver and DDP2000 are placed in Jungo.

◆ Chapter 3 ◆

■ Writing the ROM

Perform the procedure under following.

(1)Confirm setting value

- XJ-360 does not have the function to send the information as accumulative time to the PC.
- Be sure to keep separate written copies of all important information before writing.

(2)Rewriting ROM

- Connect the XJ-360 to the computer which has been installed DLP Composer Lite with the USB cable to perform rewriting.
- If your computer has not been installed DLP Composer Lite, perform installation as referring to chapter 2.

(3)Test setting

- Checking and initializing are performed after rewriting.

3-1 Confirm setting value

Keep the separate written copies of the information following because all information is cleared by initializing which automatically performed while rewriting the ROM.

- Setting of user for function
- Lamp accumulative time
- Languadge
- Error history

Boot up the diagnostic program to check the values.

① Connect AC cable.

② Turn the power switch on of the projector.

③ Boot up the diagnostic program

- Press of the “ESC” button and the “←” button on the remote at the same time, press of the “S-Video” button on the remote, and then press of the “PAGEDOWN” button on the remote transfers the mode to the diagnostic program mode.

④ Confirm the Lamp accumulative time.

- Select [Special function] in the top menu of the diagnostic mode.
- The value shown in the “Get Lamp Time” box is the Lamp accumulative time value now.

⑤ Confirm the error history

- Select [Special function] in top menu of the diagnostic mode.
- The value shown in the “error code” box is the error condition now.

3-2 Write the ROM

Start rewriting after performing 3-1.

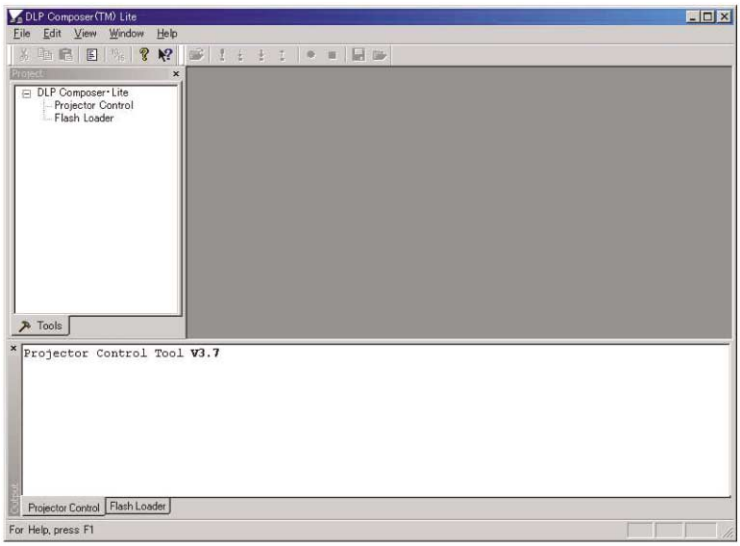
① Connect the PC and the projector with the USB cable.

- Remove the blinder (6.6mm*18.3mm) on the side exterior surface with the ring and shape the USB port for a proper positioning.

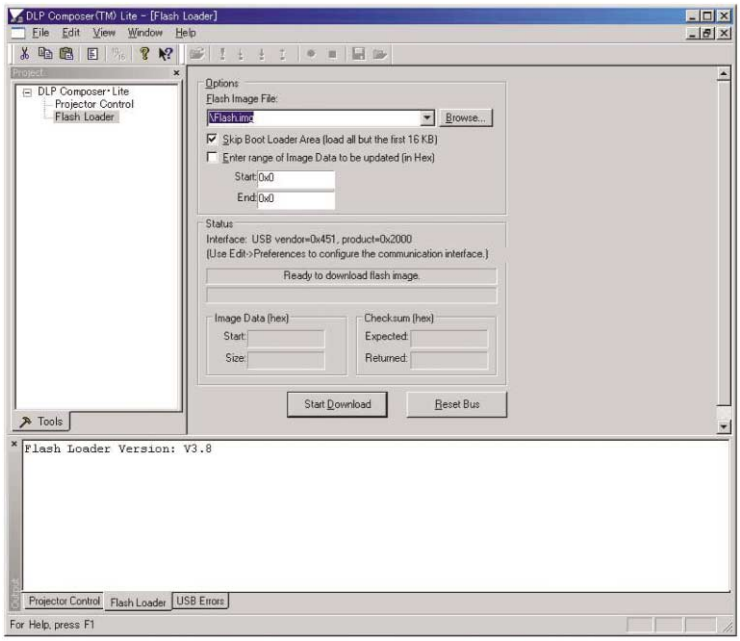
② Plug the AC cord of the projector in the power outlet.
(LED on the main unit does not lit because the system is performed in the writing mode.)

- If the Wizard checking dialog is displayed, check on “install automatically” then click “Next.”

③ Boot up DLP Composer (TM) Lite. The screen shown below is displayed.
(Icons appear on the desktop if it is installed as standard.)



④ Click “Flash Loader” on the left side of the screen. The screen as shown below appears.



- “Ready to download flash image” is displayed in the status dialog box.

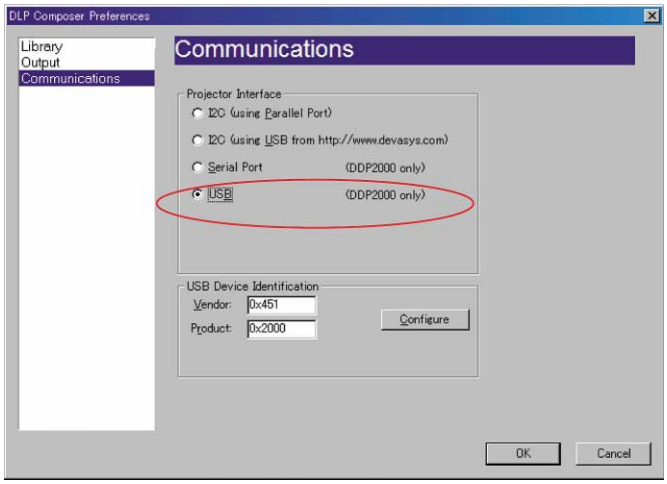
⑤ Press the “Browse” button and then select “flash image file.”
Flash image file is the file ***. Img.

⑥ Press the “Reset Bus” button at the bottom of the screen in the right side. (1 time or more)
Confirm that “Bus Rest” is shown in the Status dialog box.
USB error window appears whenever USB connection error occurs.

[Error check]

Click the [Edit] on the left side of the screen.
Select [Preferences…]→[Communications]→[Projector Interface].
Confirm that “● USB (DDP2000 only)” is selected in [Projector Interface].
Select USB (DDP2000 only) if it is not selected. (Do not change another item)

Also, confirm that “Skip Boot Loader Area…” is selected and “Enter range of …” is not selected.



⑦ Click the “Start Download” button.

DLP Composer (TM)
Warning: If you continue, the contents of flash memory will be replaced by the contents of the flash image file. Also, the download will take several minutes and cannot be interrupted.
Do you want to continue?
Yes (Y)
No (N)

Warning message appears as the picture shown above if you continue or not.
Select “Yes” and then it starts writing.

- If I2C error occurs and the error message appears, perform [Error check] described previously in the procedure 6. Then retry the procedure 7.

* Perform “Erase.” The indicator starts moving from the left to the right.
* Then writing begins. The indicator restarts moving from the left to the right.

⑧ Writing has been completed if the indicator reaches the right edge.

⑨ Confirm that “Download complete” is shown in the Status dialog box.
Make sure the values from Checksum, Expected, and Returned are same.

Writing has been succeeded if those values are determined as appropriate.

Note: There is a case that “Add New Hardware Wizard” display pops up at the time of completing the writing. In this case, click “ Cancel” and close the display.

⑩ Unplug the AC cord then (after for about 5 seconds), remove the USB cable.

Procedure is finished.

Note: SWDT error occurs if the AC cord is plugged back in the power outlet again within 5 seconds after AC cord is unplugged (procedure ⑩). Wait more than 5 seconds for the retry.
* 5 seconds is not determined time. Secure operation for the retry is that wait until the power module makes a click sound after the cord is unplugged.

3-3 Test setting

Boot up the diagnostic program to perform the test setting.

① After writing, plug the AC cord in the power outlet. (Be sure to wait more than 5 seconds after unplugging)

② Turn the power switch on of the projector.

③ Boot up the diagnostic program. (Refer to the service manual for details)

④ Confirm the ROMChecksum

- Select [Function Test] in the Top Menu of the diagnostic program mode and then select [RomChecksum].
- Confirm if Checksum value is appropriate.

Checksum	062A56BD

⑤ Index Delay Adjustment

❶ Select “Adjustment Items” in the top menu of the diagnostic mode and then select “IndexDelay.”
❷ Perform adjustment as following the instructions “Index Delay Adjustment” in the service manual.

⑥ Initializing

❶ Select “Initializing” in the Top Menu of the diagnostic mode.
❷ Perform the “Initializing” as following the instructions in the service manual.

⑦ Lamp accumulative time setting

❶ Set the lamp accumulative time. Select “Special Function” in the Top Menu of the diagnostic mode, and then configure the setting in “Set Lamp Time” as the same value as the value previously shown in the “Get Lamp Time” box, referring to [④ Confirm the Lamp accumulative time] in [3-1. Confirm setting value].